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IDEA-0778-68

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11 October 1968

MEMORANDUM FOR: Deputy Director of Special Activities

SUBJECT : Use of MIL-L-7808 Oil in Constant Speed Drive

1. It is suggested that the use of MIL-L-7808 oil be considered for use in the CSD unit on the U-2R aircraft to avoid or relieve the current problem of congealing of the MIL-L-23699 oil now being used. The MIL-L-7808 oil has a different viscosity - temperature characteristic (i.e. has a lower viscosity at lower temperatures) than the MIL-L-23699.

2. The U-2R-2-1 Technical Manual recommends MIL-L-23699 oil for normal use and MIL-L-7808 for use in operational areas where ground temperatures fall below Minus 20°F (-29°C).

3. The MIL-L-23699 oil is apparently now used in the CSD for the sake of its commonality with the engine oil to simplify oil supply requirements, and avoid having the wrong oil added to the engine tank. However it would seem that substitution of MIL-L-7808 oil in the CSD might be a simple solution to the current problem and that specific instructions be issued to avoid using CSD oil in the engine since P&W does not allow either mixing of oil Spec Nos. or name brands. Perhaps colored oils and color coded filter caps might prevent the oil mixing problem.

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